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University of California College of Agriculture Agricultural Experiment Station Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROPS

SACRAMENTO COUNTY

(Excluding Delta Lands)

Progress Report No. 34

by

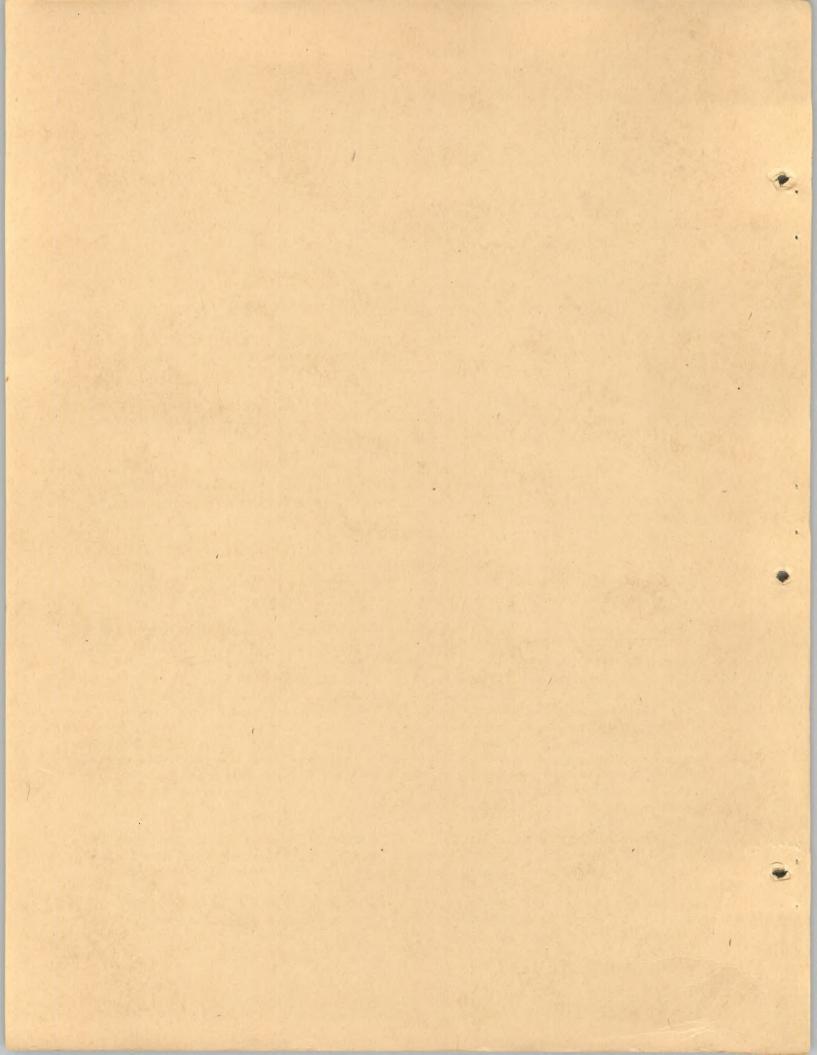
R. L. Adams

Preliminary -- Subject to Correction

November, 1936

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(Farm Labor Survey -- July-December, 1936)

Frogress Report No. 34

Seasonal Labor Needs for California Crops

Sacramento County (Excluding Delta Lands)

Scope of Presentation .-- The following considerations govern the presentation of this progress report:

- 1. The data are confined to the area indicated above.
- 2. The data are confined solely to crops, livestock needs being ignored.
- 3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
- 4. Attention is concentrated upon workers required for hand tasks -- planting, thinning, weeding, hoeing, and harvesting -- without including teamsters, tractor drivers, irrigators, and shed packers of vegetables or fruits.
- 5. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Brief Description of the Area. -- Sacramento County is one of the central counties of California, its southwestern point being about 36 miles northeast of San Francisco. It lies east of the Sacramento River, and borders that river from its point of junction with the San Joaquin northward for about 55 miles to a point some 10 miles north of the city of Sacramento. Solano and Yolo counties lie across the river to the west. On the north it is joined by Sutter and Placer counties, and on the east it is separated from El Dorado and Amador counties by a line which runs through the foothills of the Sierra Nevada Mountains. On the south Dry Creek forms the boundary between Sacramento and San Joaquin counties from the foothills westward to its junction with the north fork of the Mokelumne River. The line then follows the north fork of the Mokelumne southward to the San Joaquin and along the San Joaquin River to its junction with the Sacramento.

A large part of the agricultural land of the county lies in the lowlands and islands of the river district south of Sacramento, generally known as the "Delta", and has been omitted from this report because the Delta is treated as a separate unit in Progress Report No. 59.

The county has an area of 629,120 acres, of which 374,318 acres are classified as available for crops by the 1935 Census. This is further classified as follows by the Census for the crop year 1934:

(Parm lebor Survey - July-Docember, 1986)

Progress Report No. 34

Segmonal Labor Heeds for California Crors

Sacremento County

Scope of Frecentation -- The following considerations govern the presentation of this progress reports

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Brief Description of the Arpa. Sacremento County is one of the sentral counties of California, its southwestern point being about 36 miles northeast of Sar Francisco. It lies east of the Sacremento River, and borders that miles in a point its point of junction with the San Jesquin northward for about 55 miles to a point some 10 miles north of the city of Sacremento. Solane and Valo counties its across the river to the west. On the menth it is joined by Sutter and Placer counties, and on the east it is separated from Mi Derado and Amader counties by a line which runs through the foothills of the Slarra Movada Mountains. On the south Dry Greek forme the boundary between Sacremente and San Jesquin counties from the Contail Is westward to its junction with the north fork of the Mokelumne southward to the San Jesquin and glong the San Jesquin River to its junction with the Sacremente.

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The county has an area of 619,120 neres, of which 574,316 seres are classified as sollows as available for crops by the 1936 Census. This is further classified as follows by the Census for the crop year 1934:

	Acreage
Crop land harvested	204,255
Crop failure	2,581
Crop land idle or fallow	49,645
Plowable pasture	117,837
Total	374,318

Note: This table is for the whole county, including delta lands, which are not considered in this report.

In general, the most intensively developed farm land of the county lies along the rivers; along the Sacramento River, both north and south of the city of Sacramento, and along the American and Cosumnes rivers which drain into it from the east. Some of the higher land near the rivers has also been put under irrigation, but most of it lies below 200 feet in elevation. The lower land bordering the American and Cosumnes rivers is a fine sandy load 6 feet or more in depth. The higher land adjoining is mostly loam, of somewhat less depth. The American Basin, north of the junction of the Sacramento and American rivers, consists largely of clay with a considerable area of silt loam and fine sandy loam near the rivers.

Grain is produced over a large part of the slightly elevated rolling land between the eastern foothills and the Sacramento River, the soil being mostly a loam of moderate depth.

Crops, Acreage, and Production. -- The basis used in calculating occasional or seasonal need for labor other than that furnished by farm operators and regularly employed workers appears as table 1. This table does not include that portion of the county which lies in the Delta, since the Delta, including portions of five counties, has been considered as a separate unit in Progress Report No. 59. Due to lack of assembled data, acreage and production figures shown in table 1 are estimates based on information obtained from various sources. However, they are believed to represent conditions with a fair degree of accuracy.

TABLE 1

Basis for Calculating Seasonal Labor Needs
Sacramento County (Excluding Delta)

Crop	Acreage	Production
Field crops:*		
Alfalfa	10,000	50,000 tons
Beans	10,000	
Grain wheat, barley, oats		
Hay other than alfalfa	13,500	17,800 tons
Rice	2,832	255,294 bushels of 45 pounds
Hops	2,005	17,454 bales of 190 pounds †
Vegetable crops:		
Beanst spring	150	
fall	50	
Cabbage #	150	
Peas	140 \$	
1000	1107	21,000 hampers (of 1 bushel each)
Spinach	1,000	4,500 tons
Tomatoes canning	5,100	40,800 tons
Tomoroop Jaming	0,100	20,000 tons

183 83 3.69 G& 127,039 374,815

Motes: This table is for the whole county, including delta lands, whole are not considered in this report.

In general, the most intensively developed form lead of the county lies along al the rivers; along the Sacramento River, both north and south of the city of Sacramento, and along the American and Cosumnos rivers which drain into it from the east, Some of the higher land near the rivers has also been put ander irrightion, but most of it lies below 200 feet in elevation. The lower land bordering the American and Cosumnes rivers is a fine sandy load 6 feet or more in derth. The higher land adjoining is mostly loam, of somewhat loss dopth. The Austran Basin, north of the junction of the Samoners and American rivers, consists largely of showing and resemble and the same and the same olderestance a drive yeld

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Basis for Calcalating Seasonal Labor Roots Sacremento County (Excluding Dolta) ..

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fadaud (to) stropped		780 180 180	Vegetable proper Becast - spring Cabbage + Poss
	40,800	1,000	Spinsoh Tomatoss osmning

Table 1 continued

Crop	Acreage	Production
Tomatoes summer	100	10,400 lugs to San Francisco by truck
fall	300	52,800 lugs by rail
Fruit and nut crops: A		
Almonds	2,167	271 tons
Apples #	142	
Apricots	513	180 tons canned or shipped 75 tons fresh weight: dried
Cherries	646	120 tons canning varieties
Figs Kadota +	55	150 tons shipping varieties
Figs other than Kadota	00	6 cars to San Francisco by
	228	truck = 7,200 crates of 12 pounds
Grapes raisin varieties	439	862,875 lugs shipped
table varieties	10,678	15,000 tons for juice
wine varieties Grapefruit *	3,590 46	
Lemons +	100	
Oranges Navel +	1,297	-
		110 tons shipped
Olives	2,269	175 tons pickled
		200 tons pressed for oil
Peaches clingstone	2,071	4,240 tons fresh 85 tons fresh weight: dried
		15 tons fresh weight: dried
Peaches freestone *	946	35 tons shipped
Pears Bartlett	920 11	4,600 tons
other varieties =	250	
Persimmons *	20	7 425 1 /
Plums Prunes	2,029 2,816	1,415 tons (mostly shipped)
Walnuts	805	2,800 tons dry weight † 393,250 pounds, including 17 per
TOTAL SALE OF	000	cent culls (estimated)
Strawberries	1,150	800,000 crates of 12 baskets

^{*}Field crop acreages based largely on 1935 Census.

+Drying ratios estimated to be as follows:

Apricots 5.5 -- 1 Prunes 2.25 -- 1
Peaches 5.5 -- 1 Hops 4 -- 1

#Use of seasonal labor inconsequential on these crops -- hence ignored.

Acreage in green peas increased to 800 in 1936, but average yield decreased -- about 400 pickers required in 1936.

Fruit and nut crop acreages based on California Cooperative Crop Reporting Service. Acreage estimates -- California fruit and nut crops. Spec. Pub. 117. 1932.

|| Pear acreage is estimate for 1935.

Table 1 continued

		Leble 1 continued.
Production	. egsetpi.	Grop
10,400 lugs to San Françisco	100	Temmus sectemoT
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Thekib: dright weight: driedf	613	
noid trany galamas anoi OSI		Cherries
150 tone shipping varioties	846	
44	5.6	Figs Kadota 😤
6 cars to San Francisco by		Figs other than Kedeta
truck = 7,200 crates of	228	
32 pounds		
882,875 lugs shipped	439	Grapes reisin varieties
15,000 tons for julce	3,590	table varieties wine varieties
	84	Granafruit de dinafrante
	100	Lemons 4
	1,897	Oranges Mayel \$
110 tons shipped		
175 tons pinking	2,269	Olives
200 tons presend for oil		
Ameri cond Case	2,071	Peaches olingstone
So tons from weightedried?		And a Contract of the Contract
15 tons fruch velghbidried	946	Penches Tresstons ?
35 tons shipped	N ose	
4,600 tons	088	Foara Burtlett
	OS .	Persimmons +
1,415 tons (mostly slipped)	2,028	Plusa Plusa
† driew was and OCE,	2,818	Prunos
595, 250 pounds, including 17 port	808	ejunisW
(bottatte) silve dont		
BOO, OCC erates of 12 bestets	1,150	Strawberries

*Meld crop screages based largely on 1985 Census.

+Drying ratios setimated to be as follows:

+Use of seasonal labor inconsequential on these crops - hence ignoreds

Acresse in green pear increased to 800 in 1936, but average yield decreased as about 400 pickers required in 1936.

of Fruit and nut crop acreages based on California Cooperative Crop Reporting Service. Acreage estimates -- California fruit and nut bropu. Seco. Pub. 117.

Peer seres to estimate for 1935.

Operations Requiring Use of Seasonal Labor and Time of Need. -- Farm operations requiring the use of seasonal labor for the various crops raised in Sacramento County (excluding that portion of the county lying in the Delta) are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

TABLE 2

Operations Requiring Use of Seasonal Labor and Time of Need by Crops Sacramento County (Excluding Delta)

Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Field crops: Alfalfa	Mowing with teams 50 per cent	April 15-30 1/2 of acreage	50	7.5 acres
	of acreage Mowing with tractor 50 per cent	April 15-30 1/2 of acreage	50	20 acres*
	of acreage Raking	May September, inclusive, all of acreage each	50	15 acres
	Shocking with rakes	month October 1-15 1/2 of acreage	50	30 acres
	Stacking	May October, inclusive, 1/6 of job each month	50	10 tons
	Baling 90 per cent of crop	May October, inclusive, 1/6 of job each month	100	8 tons
Beans	Hoeing (1 time) 50 per cent	July all of job	100	2 acres
	of acreage Piling Threshing	September 1-30 70 per cent of acreage October 1-31 30 per cent of acreage September 1-30 15 per	100	l acre
	by "pick- up"	cent of acreage October 1-31 75 per cent cent of acreage November 1-15 10 per cent of acreage	50	4 acres
Grain	Harvesting with combine	June 1-30 50 per cent of acreage July 1-31 50 per cent of acreage	60	7 acres

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TABLE 2

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seves 08	03	October 1-15 1/2 of	Phocking ==	
10 toms	60	May - October, inclusive,	Stacking	
The state of the s		menth of job each	423	
smof 8	100	May - October, inclusive	Baling se	
	3	es 1/6 of job each	190 por cent	
		month	60.20 30	
2 acres	200	July all of job	Hooing	Beans
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			of acreage	
1		Soptember 1-30 70 por	Piling	
I nore	100	October Lesl 50 per		
	4.	September 1-30 - 15 per	Threshing	
		Cont of acreage	by "pick-	1
d acres	oa ·	October 1w31 es 75 per cent	"du	
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		oent of acreage		112 15
		June 1-30 50 per cent		Grain
7 acres	- 08	of acreage	Hô lư	
		Snew req 05 18-1 vist	combine	

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Table 2 con	tinued.			
Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Field crops: (cont.) Hay other than alfalfa	Mowing Raking Shocking	May 1-31 all of acreage May 1-31 all of acreage May 1-31 all of acreage	50	7.5 acres 15.0 acres 30 acres
Rice	Cutting with "swather"	September 15-30 1/3 of acreage October 1-31 2/3 of	50	10 acres
	Threshing with "pick- up" + Picking up	acreage September 15-30 20 per cent of acreage October 1-31 80 per cent of acreage September 15-30 20 per	50	4.6 acres or 180 sacks
	sacks and hauling from field	cent of crop October 1-31 80 per cent of crop	100	500 sachs
Hops	Pruning, stringing, etc.	March 1-31 1/3 of job April 1-30 2/3 of job	70	Total 6 man-days per acre
	Training vines 3 times	May 7-31 2/3 of job June 1-15 1/3 of job	70	Total 6 man-days per acre = 0.5 acre
	Picking Drying	August 7-31 all of crop August 7-31 all of crop	100 50	per day 200 pounds 2,800 pounds
	Baling	September 1-7 all of crop	60	(green weight) 15 bales of 200 pounds \$\dag{dry weight}
Vegetable crops:				0 0 0 0
green	Hoeing average 1 time	February 50 per cent of acreage March 50 per cent of acreage	100	0.66 acre
Spinach	Picking Hoeing	May 10-31 all of crop January 1-31 50 per cent of acreage February 1-28 50 per cent of acreage	100	10 hampers 0.75 acre

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Table 2 cont	inued.			
Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Spinach (cont.)	Picking up and crating	March 15-31 50 per cent of crop April 1-15 50 per cent of crop	100	4 tons
Tomatoes	Transplanting (in beds)	February 15-28 50 per cent of job March 1-15 50 per cent of job	80	5,000 plants
	Planting by hand 50 per cent of acreage Planting by	April 15-30 25 per cent of job April 15-30 25 per cent of job April 15-30 25 per	100	0.75 acre
	machine 50 per cent of acreage		100	2.0 acres
	Replanting 10 per cent of plants	May 1-30 all of job	100	4 acres
	Hoeing average 2 times Picking for canning	May 20-31 25 per cent of job June 1-30 75 per cent of job August 15-31 20 per cent of crop	100	1.0 acre
	Picking for	September 1-30 40 per cent of crop October 1-31 40 per cent of crop	100	2,000 pounds
i	shipping	July 10 per cent of shipments August-11 per cent of shipments	100	45 packed
		September 2 per cent of shipments October 75 per cent of shipments		lugs
Balance sc	attered and inc	onsequential.		
Fruit and nut crops:	Knocking	August IO-31 25 per cent of crop September 1-30 70 per		
t,		cent of crop October 1-10 5 per cent of crop	100	0,25 acre

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Table 2 com	ntinued.			
Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Almonds (cont.)	Hulling by machine¶	August 10-31 25 per cent of crop September 1-30 70 per cent of crop October 1-10 5 per cent of crop	50	400 pounds in 8 hours
Apricots	Pruning	November 75 per cent of acreage December 25 per cent of acreage	100	0.25 acre
	Thinning (April 15-30 May 1-15 June 15-30 70 per		
		cent of crop July 1-15 30 per cent of crop	100	1,000 pounds
	Cutting for drying	June 15-30 70 per cent of job July 1-15 30 per cent of job	100	600 pounds (fresh weight)**
	Other dry-yard labor	June 15-30 60 per cent of job July 1-20 40 per cent of job	100	ll hours per fresh ton
Cherries	Picking canning varieties	May 24-31 50 per cent of crop June 1-7 50 per cent of crop	100	200 pounds
	Picking shipping varieties	May 1-31 80 per cent of crop June 1-7 20 per cent of crop	100	180 pounds
	Packing shipping varieties	May 1-31 80 per cent of crop June 1-7 20 per cent of crop	100	225 pounds
Figs other than Kadota	Picking	July 1,200 crates September 3,600 crates October-2,400 crates	100	15 crates (= 180 pounds)
Grapes	Pruning	January 1/3 of acreage February 1/3 of acreage March 1/3 of acreage	90	0.33 acre
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Table 2 continued.					
Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day		
Hoeing and suckering	March 1/2 of acreage April 1/2 of acreage	90	Average 2.0 acres (varies		
Sulfuring several times	May 1/3 of job June 1/3 of job July 1/3 of job	100	greatly) Totals about 1/2 day per acre for		
Picking and packing in field for season	August 24-31 3 per cent of shipments September 1-30 60 per cent of shipments October 1-31 36 per cent of shipments November 1-15 1 per cent of shipments	100	season 12 lugs (of 31 pounds)		
Picking for wineries (and for drying)	September 15-30 30	100	3,000 pounds		
Picking for pickling	October 15-31 1/3 of crop November 1-30 2/3 of crop	100	275 pounds		
Picking for oil	December 1-31 50 per cent of crop January 1-31 50 per cent of crop	100	400 pounds		
Pruning	December 1-31 15 per cent of acreage January 1-31 35 per cent of acreage February 1-28 35 per cent of acreage	50	0.25 acre		
Thinning	cent of acreage May 1-31 50 per cent of acreage June 15-30 50 per	100	0.2 acre		
Picking	August 1-31 60 per cent of crop September 1-10 40 per cent of crop	100	l ton		
	Operation Hoeing and suckering Sulfuring several times Picking and packing in field for season Picking for wineries (and for drying) Picking for pickling Picking for oil Fruning	Hoeing and suckering Sulfuring several times Picking and packing in field for season Picking for wineries (and for drying) Picking for pickling Picking for only and for oil Picking for pickling Picking for oil Picking for only and for oil Picking for oil Picking for oil Picking for only and for oil Picking for oil Picking for or oil Picking for or oil Picking for oil Picking for or or oil Picking for or oil Picking for or oil Picking for or or oil Picking for or oil Picking for or oil Picking for or oil Picking or or	Operation Time of need by months Hoeing and suckering March 1/2 of acreage April 1/2 of acreage April 1/2 of acreage April 1/3 of job June 1/4 of		

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Table 2 conti	nued.			
Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Peaches (cont.)	Cutting for drying	August 1-31 60 per cent of job September 1-10 40 per cent of job	100	600 pounds
	Other labor in dry yards	August 1-31 60 per cent of job September 1-15 40 per cent of job	100	11 1/2 hours per fresh ton**
Pears mostly				
Bartle t t	Pruning	November 1/3 of acreage December 1/3 of acreage January 1/3 of	100	0 .2 5 acre
	Spraying	acreage September 1 time on all acreage December 1 time on 1/2 of acreage January 1 time on 1/2 of acreage March 2 times on all acreage April 2 times on all acreage May 2 times on all acreage June 1 time on all acreage	50	2 acres
	Blight control	March about 25 per cent each month April about 25 per cent each month May about 25 per cent each month June about 25 per cent each month	50	Average about 20 hours per acre for
	Picking	July 1-31 60 per cent of crop August 1-31 30 per cent of crop September 1-10 10 per cent of crop		1,200 pounds (= 30 boxes)
Plums	Pruning 50 per cent of acreage	December 10 per cent of acreage January 40 per cent of acreage	} 50	0.5 acre

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Table 2 cont:

Table 2 con	tinued.		
Crop	Operation	Time of need by months Per cent of work done by seasonal help	Output per man-day
Plums : (cont.)	Pruning (cont.)	February 40 per cent of acreage March 10 per cent of acreage	
	Thinning	April 15-30 50 per cent of acreage May 1-15 50 per cent	0.33 acre
	Picking	of acreage June 25 per cent of crop July 1-31 60 per cent	
		of crop August 1- 15 per cent of crop	700 pounds (= 25 crates
Prunes	Pruning	December 1-31 10 per cent of acreage January 1-31 40 per cent of acreage	
		February 1-28 40 per cent of acreage March 1-15 10 per cent of acreage	0.25 acre
	Shaking trees	September 1-31 90 per cent of crop October 1-10 10 per cent of crop	2.5 tons (green weight
	Picking up	September 1-31 90 per cent of crop October 1-10 10 per cent of crop	l ton
	Dipping and drying by dehydrator	September 1-31 90 per cent of crop October 1-15 10 per 90	6 hours per
	Sorting	cent of crop September 1-31 90 per cent of crop October 1-15 10 per cent of crop	5 tons
Walnuts	Knocking and picking up	September 20-30 25 per cent of crop October 1-31 75 per cent of crop	200 pounds
	Hulling usus	ally done by machine with regular help.	
Strawberries	Hoeing first time #	February 50 per cent of job March 50 per cent of job	18 days per acre

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Table 2 continued.

Crop	Operation	Time of need by months	Per cent of work done by seasonal help	Output per man-day
Strawberries (cont.) Balance	second time Picking ##	March 50 per cent of job April 50 per cent of job May 1-31 85 per cent of crop June 1-30 12 per cent of crop	7 0	18 days per acre 15 crates of 12 baskets

*Use of power equipment in handling hay is increasing with consequent reduction in labor needs.

+ Rice threshing sometimes continues into November or even December.

Drying ratio on hops is about 4 to 1. Output per man-day in baling is about 12 bales with horse press and 22 bales with electric power press.

About 1,200 plants needed per acre.

A small amount of almond hulling is done by hand, especially on smaller places, by which method workers do from 100 to 200 pounds per day depending on variety and condition of nuts.

Mapricot thinning was inconsequential in 1935. In years of heavy set of fruit it may require 4 or 5 man-days per acre.

** From Christie, A. W. and L. C. Barnard. The principles and practice of sun-drying fruit. California Agr. Exp. Sta. Bul. 388:40-60. 1925.

† Hoeing of strawberries varies greatly in amount and depends largely upon rains. Must be hoed to break crust after each rain.

† Strawberries are picked to a limited extent in nearly all months of the year, but the need for seasonal labor is limited mainly to the rush season during May and early June. It probably requires an average of about 3 persons per acre for picking during the rush season of about 2 months and of these 70 per cent are seasonal.

Findings of Seasonal Labor Needs. -- Details and summaries of seasonal labor requirements of Sacramento County agriculture are presented as table 3. The "size of task" are figures drawn from table 1 in terms of either acreage or output in tons, crates, boxes, or whatever unit is commonly used. The "output per man-day" is an average figure for the entire acreage or output figured in crates, hampers, boxes, or other units as indicated in the table. If the work is of a nature that requires a crew, different members of which perform different tasks, then the average shown is per man based on the entire crew. Length of day is 9 hours, November to February; 10 hours, March to October, unless otherwise stated. Wide variations in output occur between farm and farm, field and field, and season and season, because of differences

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in soil types, climatic conditions, weeds, yields, and other factors influencing the amount of work that a laborer can perform in a given day. Moreover, the basis of output is a mature, experienced male worker without reference to use of women, children, and more or less inexperienced help that is sometimes used in connection with certain of the tasks requiring use of seasonal workers. The column headed "available days" reflects (a) limitations set from the period within which the work must be performed because of the nature of the task, such as transplanting, thinning, weeding, and cutting, and (b) available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of individuals" is given in terms of workers as noted above in connection with "output per man-day".

It is probable that the estimated number of workers required, as recorded in table 3, will often be too low, for the reason that "peaks" frequently occur, during which an unusually large proportion of the job is done in a very short period. This would naturally require a much greater number of workers than when the work is spread over a longer period, even though the total amount of labor (in man-days) remains the same.

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TABLE 3

Seasonal Labor Needs -- Sacramento County -- by Months and Tasks
(Excluding Delta Lands)

Month Crop and task Size of task Output per man-day man-days days or workers			I	T	Required	Aveniloble	Pogui nod numban
January Spinach: Hoeing Grapes: Pruning Olives: Picking for oil Peaches (clingstone): Pruning Pears: Pruning Prunes: Pruning Prunes: Pruning Prunes: Transplanting (in beds) Pruning Prunes: Pruning Prunes: Pruning Prunes: Pruning Prunes: Transplanting (in beds) Prunes: Pruning Prunes: P	Month	Cron and table	Size of took	Gutnut nom man day			
Grapes: Pruning	WOHCH	Crop and task	Size of cask	output per man-day	man-qays	uays	or workers
Grapes: Pruning	January	Spinach: Hoeing	500 acres	0.75 acre	667	19	36
Olives: Picking for oil 100 tons 400.0 pounds 500 19 27 27 27 28 27 27 27 27			4.412 acrest	0.33 acre	13.370	19	704
Peaches (clingstone): Pruning 363 acres 0.25 acre 1,452 19 77				400.0 pounds	•	19	27
Pears: Pruning			363 acrest		1,452	19	77
Spraying Plums: Pruning Prunin			307 acres	0.25 acre		19	65
Plums: Pruning		Spraying	230 acres t	2.0 acres		19	7
Totals			203 acrest	0.5 acre	406	19	22
Pear		Prunes: Pruning	1,014 acres 1	0.25 acre	4,056	19	214
Spinach: Hoeing Tomatoes: Transplanting (in beds) 500 acres 3,168,000 plants † 528 5,000.0 plants † 528		Totals			21,794	19	1,147 man-months
Tomatoes: Transplanting (in beds)	February	Peas: Hoeing	70 acres	0.66 acre	107	21	6
Crapes: Pruning		Spinach: Hoeing	500 acres	0.75 acre	667	21	32
Grapes: Pruning		Tomatoes: Transplanting (in beds)		5,000.0 plants	634	10	64 (Feb. 15-
Peaches (clingstone): Pruning 363 acres 0.25 acre 1,452 21 70			plants †				28)
Plums: Pruning			4,412 acres	0.33 acre	13,370	21	637
Prunes: Pruning 1,014 acrest 0.25 acre 4,056 21 194 345		Peaches (clingstone): Pruning	363 acres T	0.25 acre	1,452	21	70
March Strawberries: Hoeing 402 acrest 1/18 acre 7,236 21 345		Plums: Pruning	203 acres t	0.5 acre	406	21	20
March Hops: Pruning, etc. 1,404 acres 6 2,830 22 129			1,014 acrest	0.25 acre	4,056	21	194
March Hops: Pruning, etc. 1,404 acrest 6 2,830 22 129 12			402 acres t	1/18 acre	7,236	21	345
Peas: Hoeing 70 acres 0.66 acre 107 22 5 5 5 5 5 5 5 5					27,928	21	1,330 man-months
Spinach: Picking up and crating 2,250 tons 4.0 tons 563 11 52 (March 15-31 15-31	March			6	2,830	22	129
Tomatoes: Transplanting 3,168,000 plants † † Grapes: Pruning Hoeing and suckering Peaches (clingstone): Pruning 4,412 acres† 6,618 acres† 10.25 acre 13,370 22 608 151 20 acres 3,309 22 151 157 (March 1-15) 20 acres † 2.0 acres 20 acres † 2.0 acres 460 22 21			70 acres	0.66 acre	107	22	5
Tomatoes: Transplanting		Spinach: Picking up and crating	2,250 tons	4.0 tons	563	11	52 (March
Dears: Pruning							15-31)
Grapes: Pruning		Tomatoes: Transplanting		5,000.0 plants	634	11	58 (March
Hoeing and suckering 6,618 acrest 2.0 acres 3,309 22 151							1-15)
Peaches (clingstone): Pruning 155 acrest 0.25 acre 620 11 57 (March 1-15) Pears: Spraying 920 acrest 2.0 acres 460 22 21					13,370	22	608
Pears: Spraying 920 acres † 2.0 acres 460 22 21					3,309	22	151
Pears: Spraying 920 acres 2.0 acres 460 22 21		Peaches (clingstone): Pruning	155 acrest	0.25 acre	620	11	57 (March
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Table 3 continued.

Table 3 co				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day		days	of workers
March	Plums: Pruning	50 acres t	0.5 acre	100	22	5
(cont.)	Prunes: Pruning	253 acres t	0.25 acre	1,012	22	46
	Strawberries: Hoeing	805 acres +	1/18 acre	14,490	22	659
	Totals			37,725	22	1,715 man-month
April	Alfalfa: Mowing with teams	1,250 acres †	7.5 acres	167	12	14 (April
		1-				15-30)
	Mowing with tractors	1,250 acres T	20.0 acres	63	12	6 (April
		le .				15-30)
	Raking	2,500 acres T	15.0 acres	167	12	14 (April
						15-30)
	Shocking	2,500 acres 1	30.0 acres	84	12	7 (April
						15-30)
	Hops: Pruning, etc.	1,404 acres T	ά	5,661	23	247
	Spinach: Picking up and crating	2,500 tons	4.0 tons	625	11	57 (April
						1-15)
	Tomatoes: Planting by hand	688 acres	0.75 acre	918	12	77 (April
						15-30)
	Planting by machine	688 acres	2.0 acres	344	12	29 (April
						15-30)
	Grapes: Hoeing and suckering	6,618 acrest	0.33 acre	20,055	23	872
	Pears: Spraying	920 acres t	2.0 acres	460	23	20
	Blight control	920 acres t	Al Al	230	23	10
	Plums: Thinning	1,014 acres	0.33 acre	3,073	12	257 (April
		,				15-30)
	Strawberries: Hoeing	403 acres +	1/18 acre	7,257	23	316
	Totals			39,104	23	1,701 man-months
May	Alfalfa: Mowing with teams	2,500 acres †	7.5 acres	334	25	14
	Mowing with tractors	2,500 acres t	20.0 acres	125	25	5
	Raking	5,000 acres †	· 15.0 acres	334	25	14
	Shocking	5,000 acres +	30.0 acres	167	25	7
	Stacking	4,167 tons †	10.0 tons	417	25	17
	Baling	7,500 tons +	8.0 tons	938	25	3 8
	Hay (other than alfalfa): Mowing		7.5 acres	900	25	36
	Raking	6,750 acres +	- 15.0 acres	450	25	18
	Shocking	6,750 acres +	30.0 acres	225	25	9

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Tabl	e 3	conti	nued.

Table :	3 continued.			,		
			Output per	Required	Available	Required number
Month	Crop and task	Size of task	man-day	man-days	days	of workers*
May	Hops: Training vines 2					
(cont.)	times on all acreage	2,807 acres t	0.5 acre	5,614	20	281 May 7-31)
	Peas: Picking	21,000 hampers	10.0 hampers	2,100	17	124 (May 10-31)
	Tomatoes: Planting by hand	2,062 acres	0.75 acre	2,750	12	230 (May 1-15)
	Planting by machine	2,062 acres	2.0 acres	1,031	12	86 (May 1-15)
	Replanting	550 acres	4.0 acres	138	25	6
	Hoeing	2,750 acres	1.0 acre	2,750	9	306 (May 20-31)
	Cherries (canning varieties):					
	Picking	60 tons	200.0 pounds	600	6	100 (May 24-31)
	Cherries (shipping varieties):					
	Picking	120 tons	180.0 pounds	1,334	25	54
	Packing	120 tons	225.0 pounds		25	44
	Grapes: Sulphuring	14,707 acres	11	2,451	25	98
	Peaches (clingstone): Thinning		2.0 acres	518	25	21
	Pears: Spraying	920 acres t	2.0 acres	460	25	19
	Blight control	920 acres t	P	230	25	10
	Plums: Thinning	1,015 acres	0.33 acre	3,076	12	257 (May 1-15)
	Strawberries: Picking	476,000 crates		31,734	25	1,270
	Totals			59,767	25	2,391 man-months
June	Alfalfa: Mowing with teams	2,500 acres †	7.5 acres	334	26	13
	Mowing with tractors	2.500 acres+	20.0 acres	125	26	5
	Raking	5,000 acres +	15.0 acres	334	26	13
1	Shocking	5,000 acres t	30.0 acres	167	26	7
	Stacking	4,167 tons 7	10.0 tons	417	26	17
	Baling	7,500 tons +	8.0 tons	938	26	37
	Grain: Harvesting with	,,000 00	0.0 00.15	500	20	
	combine	18,000 acrest	7.0 acres	2,572	26	99
	Hops: Training vines	1,404 acres	0.5 acre	2,808	13	217 (June 1-15)
	Tomatoes: Hoeing	8,250 acres	1.0 acre	8,250	26	318
	Apricots: Picking	179 tons	1,000.0	358	13	28 (June 15-30)
		210 00110	pounds	000	10	20 (valle 13-30)
	Cutting for drying	52 tons	600.0 pounds	174	13	14 (June 15-30)
	Other dry-yard labor	45 tons	**	50	13	4 (June 15-30)
	Cherries (canning varieties):	10 00113		30	10	4 (adite 12-20)
	Picking	60 tons	200.0 pounds	600	6	100 (June 1-7)
	Loning	oo cons	200.0 pounds	800	0	100 (June 1-7)

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rapre 2	continued.					
			Output per	Required	Available	Required number
Month	Crop and task	Size of task	man-day	man-days	days	of workers*
June	Cherries (shipping varieties):					
(cont.)	Picking	30 tons	180.0 pounds	334	6	56 (June 1-7)
	Packing	30 tons	225.0 pounds	273	6	46 (June 1-7)
	Grapes: Sulphuring	14,707 acres	1)	2,451	26	95
	Peaches (clingstone):					
	Thinning	1,036 acres	2.0 acres	518	. 13	40 (June 15-30)
	Pears: Spraying	460 acres	2.0 acres	230	26	9
	Blight control	920 acres	9	230	26	9
	Plums: Picking	354 tons	700.0 pounds	1,012	26	39
	Strawberries: Picking	67,200 crates 7	15.0 crates	4,480	26	173
	Total			26,655	26	1.026 man-months
July	Alfalfa: Mowing with teams	2,500 acres *	7.5 acres	334	26	13
	Mowing with tractor	2,500 acres 1	20.0 acres	125	26	5
	Raking	5,000 acres +	15.0 acres	334	26	13
	Shocking	5,000 acres t	30.0 acres	167	26	7
	Stacking	4,167 tons †	10.0 tons	417	26	17
	Baling	7,500 tons +	8.0 tons	938	26	37
	Beans: Hoeing	5,000 acres .	2.0 acres	2,500	26	97
	Grain: Harvesting with					
	combine	18,000 acrest	7.0 acres	2,572	26	99
	Tomatoes: Picking for					
	shippment	6,320 lugs	45.0 lugs	141	26	6
	Apricots: Picking	76 tons	1,000.0 pounds	152	13	12 (July 1-15)
	Cutting for drying	23 tons	600.0 pounds	77	13	6 (July 1-15)
	Other dry-yard labor	30 tons	**	34	17	2 (July 1-20)
	Figs (other than Kadota):					(22) 2 20)
	Picking	1,200 crates	15.0 crates	80	26	4
	Grapes: Sulphuring	14,707 acres	11	2,451	26	95
	Pears: Picking	2,760 tons	1,200.0 pounds	4,600	26	177
	Plums: Picking	849 tons	700.0 pounds	2,426	26	94
	Totals	0.00.00	Tooyo poundo	17,348	26	668 man-months
August	Alfalfa: Mowing with teams	2,500 acres t	7.5 acres	334	26	13
9	Mowing with tractor	2,500 acres t	20.0 acres	125	26	5
	Raking	5,000 acres t	15.0 acres	334	26	13
	Shocking	5,000 acres t	30.0 acres	167	26	7
	Stacking	4,167 tons†	10.0 tons	417	26	17
	Baling	7,500 tons	8.0 tons	938	26	37
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10016 2	continued.	4				
14			Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
August	Hops: Picking	6,632 tons ++	200.0 pounds+t	66,320	20	3,316 (August 7-31)
(cont.)	Drying	3,316 tonst-tt	2,800.0 poundst		20	119 (August 7-31)
	Tomatoes: Picking for canning	8,160 tons	1.0 ton	8,160	13	528 (August 15-31)
	Picking for shippment	6,952 lugs	45.0 lugs	155	26	6
	Almonds: Knocking	542 acres	0.25 acre	2,168	18	
	Hulling by machine	67 tons t	400.0 pounds	335	18	121 (August 10-31)
	Grapes: Picking and packing			000	10	19 (August 10-31)
	in field for shipment	25,886 lugs	12.0 lugs	2,158	6	200 (0
	Peaches (clingstone): Picking	2.595 tons	1.0 ton	2,595	26	360 (August 24-31)
	Cutting for drying	51 tons	600.0 pounds	170	26	100
	Other dry-yard labor	51 tons	**	59		7
	Pears: Picking	1,380 tons	1,200.0 pounds		26	3
	Plums: Picking	212 tons	700.0 pounds	2,300	26	89
	Totals	222 00HB		606	26	24
September	Alfalfa: Mowing with teams	2,500 acres +	7.5 acres	89,710	26	3,451 man-months
	Mowing with tractors	2,500 acres +	20.0 acres	334	26	13
	Raking	5,000 acres +	15.0 acres	125	26	5
	Shocking	5,000 acres +		334	26	13
	Stacking +	4,167 tons	30.0 acres	167	26	7
	Baling	7,500 tons	10.0 tons	417	26	17
	Beans: Piling	7,000 tons	8.0 tons	938	26	37
	Threshing by "pick-up"		1.0 acre	7,000	26	270
	Rice: Cutting with swather	750 acres †	4.0 acres	188	26	8
	Threshing with "pick-up"	472 acres †	10.0 acres	48	13	4 (September 15-30)
	Picking up sacks and	283 acres 4	4.6 acres	62	13	5 (September 15-30)
	hauling from field	00 000				
	Hops: Baling	22,693 sacks	500.0 sacks	46	13	4 (September 15-30)
		10,473 balest	15 bales	699	6	117 (September 1-7)
	Tomatoes: Picking for canning			16,320	26	629
	Picking for shippment	1,264 lugs	45.0 lugs	29	26	2
	Almonds: Knocking	1,517 acres	0.25 acre	6,068	26	234
	Hulling by machine	190 tons+	400.0 pounds	950	26	37
1	Figs (other than Kadota):					
	Picking	3,600 crates	15.0 acres	240	26	10
	Grapes: Picking and packing					10
	in field for shipment	517,725 lugs	12.0 lugs	43,144	13	3,319 (September 15-30)
	Picking for wineries			,		o, ora (seb camper 19-20)
	and drying	4,500 tons	1.5 tons	3,000	13	231 (September 15-30)
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			Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
September	Peaches (clingstone): Picking	3 730 tone	1.0 ton	1,730	9	107 (Contember 3 10)
cont.)	Cutting for drying	34 tons	600.0 pounds	114	9	193 (September 1-10)
cont.,	Other dry-yard labor	34 tons	**	40	13	13 (September 1-10)
	Pears: Spraying	460 acres t	2.0 acres	230	26	4 (September 1-15)
	Picking	460 tons	1,200.0 pounds	767	9	
	Prunes: Shaking trees	5,670 tons ++	2.5 tons ++	2,268	26	86 (September 1-10) 88
	Picking up	5,670 tons 1	1.0 ton 1+		26	
	Dipping and drying by	5,670 tons 11	1.0 ton 1	5,670	20	219
	dehydrator	5,670 tonst-t+	**	3,396	26	131
	Sorting	2,520 tons †	5.0 tons	504	26	20
	Walnuts: Knocking and picking	a, sau tons 1	5.0 tons	304	20	20
	up	98,312 pounds	200.0 pounds	492	9	EE (Contombon 20 70)
	Totals	50,012 pounds	200.0 pounds	95,320	26	55 (September 20-30) 3,667 man-months
ctober	Alfalfa: Mowing with teams	1,250 acres +	7.5 acres	167	12	14 (October 1-15)
0 00 001	Mowing with tractors	1,250 acres +	20.0 acres	63	12	6 (October 1-15)
	Raking	2,500 acres +	15.0 acres	167	12	14 (October 1-15)
	Shocking	2,500 acres +	30.0 acres	84	12	7 (October 1-15)
	Stacking	4,167 tons+	10.0 tons	417	24	18
	Baling	7,500 tons	8.0 tons	938	24	40
	Beans: Piling	3,000 acres	1.0 acre	3,000	24	125
	Threshing by "pick-up"	3,750 acres †	4.0 acres	938	24	40
	Rice: Cutting with swather	944 acres +	10.0 acres	95	24	40
	Threshing with "pick-up"	1,133 acres †	4.6 acres	247	24	11
	Picking up sacks and	1,100 a0168	4.0 acres	241	64	11
	hauling from field	90,771 sacks	500.0 sacks	182	24	8
	Tomatoes: Picking for canning		1.0 ton		24	
	Picking for shippment	47,400 lugs	45.0 lugs	16,320		680
	Almonds: Knocking	108 acres	0.25 acre	1,054	24	44
	Hulling by machine	14 tons +		432	8	54 (October 1-10)
	Figs (other than Kadota):	14 tons 7	400.0 pounds	70	8	9 (October 1-10)
	Picking	2,400 crates	15.0 crates			
	Picking	2 /11/1 / 000 + 00	36 / amata = 1	160	24	7

12.0 lugs

1.5 tons

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6,000 tons

in field for shipment

drying

Picking for wineries and

Olives: Picking for pickling 58 tons

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Table 3 continued.

10010	continued.		Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
October	Prunes: Shaking trees	630 tons H	2.5 tonstt	252	8	32 (October 1-10)
(cont.)	Picking up	630 tonstt	1.0 ton #1	630	8	79 (October 1-10)
	Dipping and drying by					
	dehydrator	630 tons t-+ T	**	378	12	32 (October 1-15)
İ	Sorting	280 tons +	5.0 tons	56	12	5 (October 1-15)
	Walnuts: Knocking and picking					
	ир	294,938 pounds	200.0 pounds	1,475	24	62
	Totals			57,570	24	2,399 man-months
November	Beans: Threshing by "pick-up"	500 acres t	4.0 acres	125	24	6
	Apricots: Pruning	385 acres	0.25 acre	1,540	24	65
	Grapes: Picking and packing					
	in field for shipment	8,629 lugs	12.0 lugs	720	12	60 (November 1-15)
	Picking for wineries and					
	drying	4,500 tons	1.5 tons	3,000	24	125
	Olives: Picking for pickling	117 tons	275.0 pounds	1,125	24	47
	Pears: Pruning	306 acres	0.25 acre	1,224	24	51
	Totals			7,734	24	310 man-months
December	Apricots: Pruning	128 acres	0.25 acre	512	18	29
	Olives: Picking for oil	100 tons	0.2 ton	500	18	28
	Peaches (clingstone): Pruning		0.25 acre	620	18	35
	Pears: Pruning	307 acres	0.25 acre	1,228	18	69
	Spraying	230 acrest	2.0 acres	115	18	7
	Plums: Pruning	51 acres +	0.5 acre	102	18	6
	Prunes: Pruning	253 acres +	0.25 acre	1,012	18	57
	Totals			4,089	18	228 man-months

^{*}On a monthly basis unless otherwise noted.

[†] Estimated portion of job done by seasonal workers.

⁺ Twenty per cent added to allow for replanting needs.

Hop pruning, stringing, etc., estimated to require a total of 6 man-days per acre, one-third of the job in March and two-thirds in April.

A Blight control on pears varies greatly. Averaged about 20 man-hours per acre in 1935.

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// Grapes are sulfured several times, requiring a total of about one-half man-day of labor per acre for the season.

**Dry-yard labor, other than cutting, estimated to be as follows:

Apricots -- 11 man-hours per fresh ton.

Peaches -- 11.5 man-hours per fresh ton.

Prunes -- 6.0 man-hours per fresh ton.

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TABLE 4

Summary of Seasonal Labor Needs by Months
Sacramento County
(Excluding Delta Lands)
1935

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
January	21,794	19	1,147
February	27,928	21	1,330
March	37 ,7 25	22	1,715
April	39,104	23	1,701
May	59,767	25	2,391
June	26,655	26	1,026
July	17,348	26	668
August	89,710	26	3,451
September	95,320	26	3,667
October	57,570	24	2,399
November	7,734	24	310
December	4,089	18	228
Total	484,744	Alle con	20,033

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Notes

Notes on Table 2.-- Data concerning "time of need" as shown in this table break down required seasonal labor into the periods when the work is performed in order to permit a subsequent determination of labor needs by months (table 3). Some operations are performed only to a limited extent by seasonal workers. For example, only about 50 per cent of the work in harvesting alfalfa hay is estimated to have been done by seasonal laborers. This having been done over a period of several months, a portion was assigned to each.

The amount of work done each month is based on the cropping system followed in 1935. The allotting of amounts of work is based on findings concerning local farm practices, and required time to "make" a crop resulting from inquiry of producers, and records of carlot shipments, the latter proving helpful in fixing dates of planting and of subsequent tasks involved in producing certain crops. Proportionate amounts of output harvested each month were determined from data of local practices with respect to harvesting, and from carlot shipments of perishable products. Records of truck shipments were also used when available.

Notes on Table 3.-- Table 3 is the condensed summary of labor needs as worked out for Sacramento County as a result of findings pertinent to 1935. The data are presented by months with the tasks which were performed in each month indicated by both crop and task. The size of the job was calculated from the data appearing in table 1 (acreage and production) and table 2 (task, time of performance, and percentage of work pertinent to a given month). The output per man-day was calculated as indicated in the foreword presenting table 3. The number of required man-days is a result of dividing the size of task by output per man-day. The available days for the different tasks involve two variables. The first is the number of days when field work is possible because of favorable weather conditions. The basis for this column was determined from a study of the monthly weather charts of the United States Weather Bureau for the years 1933, 1934, and 1935. These data indicated available days per month as follows (based on a 26-day working month without allowance for holidays):

Month	Available days	Length of work day	Month	Available days	Length of work day
January February March April May June	19 21 22 23 25 26	9 9 10 10 10 10	July August September October November December	26 26 26 24 24 24	hours 10 10 10 10 9 9

Source of data: Based on precipitation records of the Sacramento station of the United States Weather Bureau for the years 1933, 1934, and 1935.

The second factor influencing the number of available days was the size of the job. If the output was small in amount, then the number of days was limited to the time needed to get out this amount efficiently. If a field operation had to be performed in a period less than the number of available days in the month, then the specific number of days was noted. These restrictions are shown in parentheses. For example, in June picking of cherries was limited to the first week, apricot picking to 13 days in the last half of the month, etc.

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The totals of table 3 show the total required man-days of needed seasonal labor, the available days for field work during the month, and the necessary number of men (as defined in the opening paragraph of table 3) required on a monthly basis to care for the tasks ordinarily performed by seasonal workers.

In an area such as Sacramento County, involving a substantial acreage of field and truck crops, the findings as set forth in this report are bound to fluctuate materially from year to year because of the influence of the market outlook upon what and how much acreage is planted, and when it is planted; because of variable seasonal conditions affecting yields, times of performing operations, and available days, and because of harvesting operations on certain crops being speeded up to supply a good market or retarded to avoid a poor one, resulting in marked variations in the need for harvest labor.

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